Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

SBR No

(For Other Works)

Date ... 20

No. **3rd and Part Bill**

Division :Project Division (RRNagara) **Sub Division : Project Sub Division - (RRNagara)**

Estimate Cost(Rs.) :- **500.00 Lakhs**

Bill Received No ..... Dated .....

Scheduled Docket No: Cash Book Voucher No ..... dated .....

Name of Work (as per sanctioned estimate):- **Construction of Oldage Homes and other Building in JP Park in Ward No.17 J.P Park.** Head of Account :- **P-3494** D.R No:

Job Code :- 017-19-000016.

As No& Dt :- EE(P)/RRN/AS No/12/2019-20 Date :-13.02.2020.

Ts No & Dt :- CE/RRN/Ts No.09/2020-21 Date:-15-05-2020.

Ag No & Dt :- EE(P)/RRN/AG No/48/2020-21 Date :-25.02.2021

Name of Contractor and Full Address : K R GOVINDARAJU.

Reference to Work order No :Wo No: EE(P)/RRN/ W.O/05/2020-21, Dt:- 06.05.2021.

Certified that the measurements were taken by me on 21/3/22 and recorded of Pages No 40898 to 041 Of measurement Book No : 4021 and that the work is satisfactorily executed.

Signature of Contractor

Officer in charge of Work
AE/JE (P) RRN

Certified that the measurements were taken by me on 1/3/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub Division Officer (Project)
Assistant Executive Engineer
Bruhat Bangalore
Rajarajeshwari Nagar Zone

If Memorandum of Payment

II^nd Signed bill value 8458516.00
August of RA -> 3936715.00
Deduction -> 806484.00

1.Total value of work done or supplies made as per account within	
2.Deduct amount to be held in reserve being ..... percent Rs...	
3. Balance	
4.Deduct Payment : III^rd Signed bill of RA -> 10842107	
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S D No..... Forward RA-1	
Amount adjusted towards cash advance recovery of	1,21,43,205
b) Payments cost store or other materials supplied.	
Now made recovery of amount creditable to this/other work	
Amount paid on this bill Cheque/Cash	
1.Balance being unpaid value of work done held in reserve	
2.Deduct cash advance made on the office Cash Book Voucher No date .....less adjustments	
3.Net amount due to or from contractor Unadjusted items	
4.Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied.	

Adjustments Details

I.T	1214432.00
CGST & SGST	10842107+10842107
CBF	12143
FSD	-
Labour CESS	121432.00
Royality	69000.00
Total	540849.00

Contractor's Signature

Received Rs... .....(in works)

.....

By Cash and by adjustment of Payment as per memorandum

Witnesses:

1.

2.

Dated.....**Signature of Contractor**

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of Officer Making Payment

(For use in the Office)

Passed for Rs...1,21,43,205.00 Only

Net Cheque Rs...1,16,02,356.00 Only

Adjustment Rs...5,40,849.00 Only

Rs. In Words...one crore sixteen lakhs two thousand three hundred and fifty six only

Executive Engineer(P)

Accts Supp
RRNZ
BBMP

EE (P)
RRNZ
BBMP

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	Part bill									
1	1	Earth work excavation for foundation of structures upto 3 mtrs.by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising / transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete. - do - In all types of soils. complete as per the direction of the Engineer in-charge	Cum	606.08	100.00	484.86	48486.00	121.22	12122.00	606.08	60608
		Above 125%	Cum	899.37	60.65	0.00	0.00	899.37	54547.00	899.37	54547.00
2	3	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. complete as per the direction of the Engineer in-charge.	Cum	461.70	400.00	369.36	147744.00	92.34	36936.00	461.70	184680.00
		Above 125%	Cum	555.01	348.75	0.00	0.00	555.01	193560.00	555.01	193560.00
3	5	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor,along the external perimeter of building,expansion joints,over the top surface of consolidated earth on which apron is to be laid,surrounding of pipes and conduits with chloropyriphos emulsifiable concentrates of 20% concentration,including cost of chemical,diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications.(Plinth area of the	Sqm	1105.00	120.00	1105.00	132600.00	0.00	0.00	1105.00	132600.00
4	6	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. complete as per the direction of the Engineer in-charge.	Cum	700.60	368.00	597.00	219696.00	103.60	381125.00	700.60	257821.00
5	7	Providing and laying in position Plain Cement Concrete of Mix 1:4:8 with OPC cement @ 180kgs, with 40mm & down size graded granite metal coarse aggregates @ 0.85 cum & fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specification complete as per the direction of the Engineer in-charge.	Cum	181.81	6000.00	174.10	1044600.00	7.71	46260.00	181.81	1090860.00
6	8	Providing and laying in position Plain Cement Concrete of mix 1:2:4 with OPC cement @ 240kgs, with 20mm & down size graded granite metal coarse aggregates @ 0.878 cum & fine aggregates @ 0.53 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation, plinth and Cills including cost of all materials, labour, HOM of machinery, curing complete as per specification. complete as per the direction of the Engineer in-charge.	Cum	2.13	6000.00	2.13	12780.00	0.00	0.00	2.13	12780.00
7	9	Providing and laying in position plain cement concrete of nominal mix 1:3:6 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. complete as per the direction of the Engineer	Cum	3.64	6000.00	3.64	21840.00	0.00	0.00	3.64	21840.00
8	10	Driving cast-in-place vertical R.C.C. 500mm dia. piles with OPC cement design mix M30 @ 360 kgs, CA0.69M3, FA0.46 M3 with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.46 cum, with superplastisiser @ 3 lts conforming to IS 9103-199 Reaffirmed-2008 excluding reinforcement as per drawings including cost of all materials, labour, HOM of machineries complete as per specifications. complete as per the direction of the Engineer in-charge.	Mtr	1840.00	7000.00	1312.00	9184000.00	328.00	2296000.00	3640.00	12480000.00
		Above 125%	Cum	102.15	8857.32	0.00	0.00	102.15	904775.00	102.15	904775.00
9	11	Cement Concrete for Reinforced Concrete in Pile Cap per Drawing and Technical Specification complete as per specifications. C. RCC with OPC cement design mix M30 @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. Case-I: Using Concrete Mixer MORTH Specification No.1100, 1500 & 1700, complete as per the direction of the Engineer in-charge.	Cum	83.50	8000.00	83.50	668000.00	0.00	0.00	83.50	668000.00
10	13	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) M30 grade complete as per the direction of the Engineer in-	Cum	421.49	8000.00	377.66	3021280.00	43.83	350640.00	421.49	3371920.00

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						Qty	Amount	Qty	Amount	Qty	Amount
11	14	Providing and laying cement concrete using 20 mm and down size granite jelly of Ready mixed concrete (RMC) M-25 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel, fabrication charges and plastering.) complete as per the direction of the Engineer in charge.	Cum	102.20	8000.00	81.76	654080.00	20.44	163520.00	102.20	[illegible]
		Above 125%	Sqm	39.88	7234.12	0.00	0.00	39.88	288497.00	39.88	288497.00
12	15	Providing and laying in position reinforced cement cocnrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plasticisers @ 0.225 Ltrs machine mixed well compacted Plain Chajja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification. complete as per the direction of the Engineer in-charge.	Sqm	40.74	550.00	40.74	22407.00	0.00	0.00	40.74	22407.00
13	16	Providing and laying in position Plain Cement Concrete of Mix 1:4:8 with OPC cement @ 180kgs, with 40mm & down size graded granite metal coarse aggregates @ 0.85 cum & fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specification complete as per the direction of the Engineer in-charge.	Sqm	53.81	6000.00	47.87	287220.00	5.94	35640.00	53.81	322860.00
14	18	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. complete as per the direction of the Engineer in-charge.	Sqm	90.14	400.00	90.14	36056.00	0.00	0.00	90.14	36056.00
15	19	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Foundations, footings , bases of columns for mass concrete including cost of all materials, labour complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	518.58	335.00	414.86	138978.00	103.73	34750.00	518.59	173728.00
		Above 125%	Sqm	681.38	295.36	0.00	0.00	681.37	201249.00	681.37	201249.00
16	20	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides & soffits of Beams, beam haunchings, cantilever girders, bressumers & Lintels & not exceeding 1.0 m in depth including cost of all materials, labour complete as per specifications.	Sqm	1614.26	550.00	1395.34	767437.00	218.92	120406.00	1614.26	887843.00
17	21	Providing and removing centering, shuttering, strutting, propping etc., for Columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification.	Sqm	402.19	550.00	382.12	210166.00	0.00	0.00	382.12	210166.00
18	22	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Flat surface such as suspended floors,roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50mtrs.	Sqm	1164.68	750.00	1079.08	809310.00	85.90	64425.00	1364.98	873735.00
19	23	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	39.12	850.00	35.60	30260.00	0.00	0.00	35.60	30260.00
20	24	Providing and removing centring, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) Except Spiral Staircase including cost of all materials,labour complete as per specification and directed by the Engineer in Charge. complete as per the direction of the Engineer in-charge.	Sqm	18.58	850.00	18.58	15793.00	0.00	0.00	18.58	15793.00
21	25	Providing and removing centring, shuttering, strutting, propping etc., and removal of form work for columns, pillars, post and struts, circular or curved in plan including cost of all materials,labour complete as per specification and directed by the Engineer in Charge. complete as per the direction of the Engineer in-charge.	Sqm	11.87	950.00	11.87	11277.00	0.00	0.00	11.87	11277.00
22	26	Providing and removing centering, shuttering, strutting, propping etc., for Chajjas, corbels of all shapes & sizes, at all elevations & heights. complete as per the direction of the Engineer in-	Sqm	40.74	500.00	40.74	20370.00	0.44	220.00	41.18	20590.00
23	27	Extra For providing throating or Drip moulding to RCC chajjas with plastreing(labour charges only), as perspecification, complete as per the direction of the Engineer in-charge.	Mtr	98.20	38.00	98.20	3732.00	0.00	0.00	98.20	3732.00
24	28	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of	Tonne	59.59	91000.00	54.73	4980430.00	4.86	442260.00	59.59	5422690.00
25	29	Providing and placing un-coated TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position of lappingand/ or welding wherever reqd.tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (flats, hooks, & wastages shall not be measured and paid) including cost of all materials, labour, HOM of machineries etc., complete as per specifications. complete as per the direction of	Tonne	41.37	93000.00	38.97	3548670.00	2.40	218400.00	41.37	3764670.00

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26	30	Providing and constructing granite/basalt size stone masonry in basement with cement mortar 1:6; edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2mts apart in each course including cost of materials, labour, curing, complete as per specifications.	Cum	117.08	6300.00	105.00	661500.00	12.08	76104.00	117.08	737[illegible].00
27	31	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications. complete as per the direction of	Sqm	69.79	160.00	69.79	11166.00	0.00	0.00	69.79	11166.00
28	32	Providing and constructing Burnt Brick Masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. GROUND FLOOR	Cum	225.55	8500.00	217.00	1844500.00	8.55	72675.00	225.55	1917175.00
29	33	Providing and constructing Burnt Brick Masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. TERRACE FLOOR. complete as per the direction of the	Cum	41.05	8500.00	41.05	348925.00	0.00	0.00	41.05	348925.00
30	34	Construction of partition wall 11.2 cms thick with non modular ground moulded burnt bricks of class designation with cement mortar 1:4 including providing and fixing plaster mesh manufactured out of hot dipped galvanised iron of nominal thickness 0.35 mm. 100 mm. wide as per I.S. 2212/1991 at 7.5 m. c/c including cost of materials, labour charges, scaffolding, curing complete as per specifications. complete as per the direction of the Engineer in-charge.	Cum	165.00	1046.00	132.00	138072.00	33.00	34518.00	165.00	172590.00
		Above 125%	Sqm	86.46	999.21	0.00	0.00	86.46	86392.00	86.46	86392.00
31	35	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.- do - with solid concrete blocks of size 400x200x200mm. complete as per the direction of the Engineer in-charge.	Sqm	116.06	1200.00	116.06	139272.00	0.00	0.00	116.06	139272.00
32		Providing 12mm thick cement plaster in single coat with cement mortor 1:3, to ceiling including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	1138.96	325.00	0.00	0.00	1138.95	370159.00	1138.95	370159.00
33		Providing 15mm thick cement plaster in single coat with cement mortor 1:3, to brick masonry including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(internal) complete as per the direction of the Engineer in-charge.	Sqm	981.69	325.00	0.00	0.00	961.62	312527.00	961.62	312527.00
34		Providing rough cement plastering 15 mm thick in single coat with cement mortor 1:6, to brick masanary for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	803.74	325.00	0.00	0.00	803.74	261216.00	803.74	261216.00
35		Providing 18mm thick cement plaster in single coat with cement mortar 1:3 to Brick masonry including rounding off corners wherver required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.External Plastering GROUND FLOOR complete as per the direction of the Engineer in-charge.	Sqm	806.61	325.00	0.00	0.00	806.61	262148.00	806.61	262148.00
36		Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to concrete wall including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. Outside plastering for Sump , complete as per the direction of the Engineer in-charge.	Sqm	47.28	325.00	0.00	0.00	47.28	15366.00	47.28	15366.00
37		Providing 18m thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	608.51	325.00	0.00	0.00	608.51	197766.00	608.51	197766.00
45		Applying Red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	2375.19	47.00	0.00	0.00	263.91	12404.00	263.91	12404.00

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	Part Bill									
48		Providing and fixing Special make glazed Vitrified tiles of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., cost of materials, mortar, labour etc., complete as per specification. complete as per the direction of the Engineer in-charge.	Sqm	797.96	1246.00	0.00	0.00	797.96	994258.00	797.96	994258.00
49		Flooring with 25mm thick polished tandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS. complete as per the direction of the Engineer in-charge.	Sqm	175.20	1700.00	0.00	0.00	175.20	297840.00	175.20	297840.00
54		Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortor 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. size 30x30cms, complete as per the direction of the Engineer in-charge.	Sqm	98.52	1375.00	0.00	0.00	98.52	135465.00	98.52	135465.00
55		Providing skirting, dadoing, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	492.94	1329.00	0.00	0.00	492.94	655117.00	492.94	655117.00
56		Providing TEAK WOOD frames of doors, windows, clerestory windows, and other frames, wrought, framed or assembledincluding making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications, complete as per the direction of the Engineer in-charge.	Cum	0.14	181533.00	0.00	0.00	0.14	25415.00	0.14	25415.00
57		Providing Honne Wood frames of doors, windows, clerestory windows, and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications, complete as per the direction of the Engineer in-charge.	Cum	0.93	101233.00	0.00	0.00	0.93	94147.00	0.93	94147.00
58		Providing and fixing in position fully panelled Teak wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	5.04	8098.00	0.00	0.00	0.00	0.00	0.00	0.00
59		Providing and fixing flush door shutter made out of solid core black board type, well seasoned chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame all-round door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door using liquid phenol formaldehyde resin as per IS specification 2202 (Part-I) 1991. From manufacturer (Factory) complete as per specification. complete as per the direction of the Engineer in-charge.	Sqm	47.04	3578.00	0.00	0.00	47.04	168309.00	47.04	168309.00
62		Providing and fixing factory made single leaft rigid GRP Sandwich composite door shutter of 32mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and on layer of 45 gsm E-Glass Chopped strand Mat (CSM), impregnated with orthopthalic polyster resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 29mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not less than 28mmx32mm and also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc, shall be provided. A structural, complete as per the direction of the Engineer in-charge.	Sqm	39.38	3402.00	0.00	0.00	39.38	133971.00	39.38	133971.00
63		Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S.square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifictions. complete as per the direction of the Engineer in-charge.	kgs	2375.19	108.00	0.00	0.00	2375.19	256521.00	2375.19	256521.00
64		Providing and fixing in position collapsible steel shutters with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications. complete as per the direction of the Engineer in-charge.	Sqm	5.04	5907.00	0.00	0.00	5.04	29771.00	5.04	29771.00

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65		Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. complete as per the direction of the Engineer in-charge.	Nos	20.00	1548.00	0.00	0.00	20.00	30960.00	20.00	30960.00
68		Providing & fixing CI Nahani trap of approved make confirming to ISI specification and construction of cistren in M 15 as per directions, complete as per the direction of the Engineer in-charge.	Each	50.00	284.00	0.00	0.00	50.00	14200.00	50.00	14200.00
69		Providing and fixing in un plasticised PVC Connection pipe with brass union 15 mm nominal bore 450 mm length of PVC connection including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. complete as per the direction of the Engineer in-charge.	Each	25.00	300.00	0.00	0.00	25.00	7500.00	25.00	7500.00
70		Providing and fixing in position 25 mm nominal bore gun metal non return valve horizantal type of approved make including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. complete as per the direction of the Engineer in-charge.	Each	2.00	665.00	0.00	0.00	2.00	1330.00	2.00	1330.00
71		Providing and fixing to wall, ceiling and floor , High density polyethylene pipes 6.00 kgf /sqcm working pressure 63 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. a) 63 mm dia complete as per the direction of the Engineer in-charge.	Each	20.00	450.00	0.00	0.00	20.00	9000.00	20.00	9000.00
72		Providing and fixing to wall, ceiling and floor , High density polyethylene pipes 6.00 kgf /sqcm working pressure 63 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. b) 75 mm dia complete as per the direction of the Engineer in-charge.	Each	20.00	500.00	0.00	0.00	20.00	10000.00	20.00	10000.00
73		Providing and fixing to wall, ceiling and floor , High density polyethylene pipes 6.00 kgf /sqcm working pressure 63 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. c) 90 mm dia complete as per the direction of the Engineer in-charge.	Each	25.00	600.00	0.00	0.00	25.00	15000.00	25.00	15000.00
74		Providing and fixing to wall, ceiling and floor , High density polyethylene pipes 6.00 kgf /sqcm working pressure 63 mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications. d) 110 mm dia complete as per the direction of the Engineer in-charge.	Each	62.00	674.00	0.00	0.00	62.00	41788.00	62.00	41788.00
75		Providing & Fixing in position heavy duty C P grating with frame of below mentioned sizes including jointing and fixing material complete.a) 75 mm dia complete as per the direction of the Engineer in-charge.	Each	50.00	170.00	0.00	0.00	50.00	8500.00	50.00	8500.00
76		Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing the pipes with the clamp at 1.00 mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.) A)15mm dia pipe nominal OD pipes , complete as per the direction of the Engineer in-charge.	Each	30.00	233.00	0.00	0.00	30.00	6990.00	30.00	6990.00
77		Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing the pipes with the clamp at 1.00 mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.) B)20mm dia pipe nominal OD pipes, complete as per the direction of the Engineer in-charge.	Each	100.00	265.00	0.00	0.00	100.00	26500.00	100.00	26500.00
78		Providing and fixing unplastisied PVC Pipes 10 Kg/Sq Cm working pressure Chemp plast/ Wavin or equavalent make with pipe fittings making good the floor, including cost of materials, labour charges, HOM of equipement & testing complete as per specifications.A) 110 mm dia, complete as per the direction of the Engineer in-charge.	Mtr	37.00	636.00	0.00	0.00	37.00	23532.00	37.00	23532.00
79		Providing and fixing unplastisied PVC Pipes 10 Kg/Sq Cm working pressure Chemp plast/ Wavin or equavalent make with pipe fittings making good the floor, including cost of materials, labour charges, HOM of equipement & testing complete as per specifications.B) 160 mm dia, complete as per the direction of the Engineer in-charge.	Mtr	62.50	1315.00	0.00	0.00	62.50	82188.00	62.50	82188.00
		Above 125%		147.50	1433.29	0.00	0.00	147.50	211410.00	147.50	211410.00

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80		Providing stone ware gully trap of approved quality and fixing in C C 1:2:4 and plastering with C M 1:3 where ever necessary (Rate including cost of all materials, fixtures and lead). complete as per the direction of the Engineer in-charge.	Each	10.00	330.00	0.00	0.00	10.00	3300.00	10.00	3300.00
81		Constructing brick masonry inspection chamber 600 x 600 mm , and 450 mm depth, (clear dimension) for single pipeline, using table moulded non- modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x600 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as	Each	5.00	8914.00	0.00	0.00	5.00	44570.00	5.00	44570.00
82		Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 450x450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as	Each	10.00	5565.00	0.00	0.00	10.00	55650.00	10.00	55650.00
83		depth beyond 450 mm and brick masonry chamber with table moulded non- modular bricks of class designation 50 in cement mortar 1:5, for every 150 mm depth or part there of including cost of materials, labour charges, curing complete as per specifications, complete as per the direction of the Engineer in-charge.	Each	10.00	765.00	0.00	0.00	10.00	7650.00	10.00	7650.00
84		Constructing brick masonry inspection chamber 500x700mm, and 450mm depth, (clear inside dimension) for pipeline with one are two inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 450x450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications, complete as per the direction of the Engineer in-charge.	Each	2.00	8270.00	0.00	0.00	2.00	16540.00	2.00	16540.00
85		depth beyond 450 mm and brick masonry chamber with table moulded non- modular bricks of class designation 50 in cement mortar 1:5,for every 150 mm depth or part there of including cost of materials, labour charges, curing complete as per specifications, complete as per the direction of the Engineer in-charge.	Each	2.00	852.00	0.00	0.00	2.00	1704.00	2.00	1704.00
86		Making wall bores in brick masonry walls up to 0.45 Cm Thick. Including cost materials, labours, HOM Complete as per Specification. complete as per the direction of the Engineer in-charge.	Each	26.00	133.00	0.00	0.00	26.00	3458.00	26.00	3458.00
87		Making wall bores in Stone masonry walls up to 0.60 to 90 Cm Thick. Including cost materials, labours, HOM Complete as per Specification. complete as per the direction of the Engineer in-charge.	Each	15.00	345.00	0.00	0.00	15.00	5175.00	15.00	5175.00
93		Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall a)1-3Way complete as per the direction of the Engineer in-charge.	Each	10.00	110.00	0.00	0.00	10.00	1100.00	10.00	1100.00
94		Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall b)6 Way, complete as per the direction of the Engineer in-charge.	Each	10.00	140.00	0.00	0.00	10.00	1400.00	10.00	1400.00
95		Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall c) 8Way, complete as per the direction of the Engineer in-charge.	Each	30.00	160.00	0.00	0.00	30.00	4800.00	30.00	4800.00
96		Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall d) 10-12Way, complete as per the direction of the Engineer in-charge.	Each	30.00	180.00	0.00	0.00	30.00	5400.00	30.00	5400.00

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	Part bill)					Qty	Amount	Qty	Amount	Qty	Amount
110	144	Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary a) 19mm dia 2mm thick, complete as per the	Mtr	800.00	50.00	800.00	40000.00	0.00	0.00	800.00	40000.00
111	145	Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary b) 25mm dia 2mm thick, complete as per the	Mtr	300.00	56.00	300.00	16800.00	0.00	0.00	300.00	16800.00
112	146	Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary c) 32mm dia 2.5mm thick, complete as per	Mtr	20.00	88.00	20.00	1760.00	0.00	0.00	20.00	1760.00
127	177	Geophysical investigation of site for sinking Bore - well for supplying drinking water to the habitation either through the Hand Pump, MWS or PWSS by vertical electrical sounding by adopting Veneer on Schlumbergers method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality quantity &	Each	1.00	3862.00	1.00	3862.00	0.00	0.00	1.00	3862.00
128	178	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of Rig & supporting vechicle, crew charges & cost of consumables etccomplete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc.) 2.1)0.00 to 50.00 mtrs, complete as per the direction of the Engineer	Rmt	50.00	364.00	50.00	18200.00	0.00	0.00	50.00	18200.00
129	179	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of Rig & supporting vechicle, crew charges & cost of consumables etccomplete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc.)2.2)50.00 to 100.00mtrs, complete as per the direction of the	Rmt	50.00	464.00	50.00	23200.00	0.00	0.00	50.00	23200.00
130	180	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of Rig & supporting vechicle, crew charges & cost of consumables etccomplete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc.)2.3)100.00 to 150.00mtrs, complete as per the direction of the	Rmt	50.00	464.00	50.00	23200.00	0.00	0.00	50.00	23200.00
131	181	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of Rig & supporting vechicle, crew charges & cost of consumables etccomplete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc.)2.4)150.00 to 200.00mtrs, complete as per the direction of the	Rmt	50.00	464.00	50.00	23200.00	0.00	0.00	50.00	23200.00
132	182	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of Rig & supporting vechicle, crew charges & cost of consumables etccomplete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc.)2.5)200 to 250.00mtrs, complete as per the direction of the Engineer	Rmt	50.00	464.00	50.00	23200.00	0.00	0.00	50.00	23200.00
133	183	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting and threading and welding including transportation of Rig & supporting vechicle, crew charges & cost of consumables etccomplete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc.)2.6)250 to 300.00mtrs, complete as per the direction of the Engineer	Rmt	50.00	464.00	50.00	23200.00	0.00	0.00	50.00	23200.00

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	Part bill)										
134	184	Supply of ISI mark 175 mm nominal bore,plain end steel casing pipe grade of steel fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, eletric resistence welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10Kg/mtr (inclusive of all taxes and duties). Prices including collar medium duty, complete as per the direction of the Engineer in-	mtr	30.00	1391.00	30.00	41730.00	0.00	0.00	30.00	41730.00
135	185	Providing and fixing 175mm dia borewell cap medium class(MR), complete as per the direction of the Engineer in-charge.	nos	1.00	100.00	1.00	100.00	0.00	0.00	1.00	100.00
136	186	M.S. Casing pipe collars "B" class (MR), complete as per the direction of the Engineer in-charge.	nos	5.00	158.00	5.00	790.00	0.00	0.00	5.00	790.00
137	187	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dai and having declared duty conditions as detailed below and satisfying performance characteristic for pump and motar as declared by Bureau of Indian Standards. The pump should confirm to IS 928 / 55 (with all its latest amendments) and should bear the ISI certification mark is 928/55. The pumpset should consist of bronze impellers, Discharge : 750 lph, Head L102.88 mts 10HP /7.5KW	nos	1.00	52452.00	1.00	52452.00	0.00	0.00	1.00	52452.00
138	188	Supplying and drawing 3 core flat PVC sheathed Submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3class 5 of IS :8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts.(Group B) -3C X 6.0Sq mm, complete as per the direction of the Engineer in-charge.	Rmt	300.00	172.00	300.00	51600.00	0.00	0.00	300.00	51600.00
139	189	Errection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. BWSSB, Letter BWSSB/CE(M)ACE(M)-II/TA-8/9194/2008-09 dated 21/1/09), complete as per the direction of the Engineer in-charge.	nos	1.00	3150.00	1.00	3150.00	0.00	0.00	1.00	3150.00
140	190	Supplying and fixing 50mm GI Union. complete as per the direction of the Engineer in-charge.	nos	2.00	246.00	2.00	492.00	0.00	0.00	2.00	492.00
141	191	Supplying fully atutomatic star-delta Starter unit push button type with suitable wires, 3 contactosr, one adjustable thermal timer mounted on a common base late held in steel enclosure for use on 440/440 volts 3 phase and wired afterfixing to the existing wooden board for motor 15.0 HP , complete as per the direction of the Engineer in-charge.	nos	1.00	8686.00	1.00	8686.00	0.00	0.00	1.00	8686.00
161		Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum	74.83	2780.72	0.00	0.00	74.83	208081.00	74.83	208081.00
		Sub-Total					29533870.00		10842147.00		40376017.00
		Add GST Charges 12%					3544064.00		1301058.00		4845122.00
		Grand Total Rs					33077934.00		12143205.00		45221139.00

Certificate:

1. Certified that the contractor has done the work satisfactorly
2. Certified that the debris has been removed from the site
3. Certified that the No dues from the contractor
4. Certified that the above item of the work were not claimed in any other bill

Contractor

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

RR Nagar

Assistant Executive Engineer (Project)
Bruhat Bengaluru
Rajarajeshwari nagar Zone

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